

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 | 580,428
Source: IFWO
Date Processed by STIC: 4/20/07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/580,428

TIME: 16:05:47

Input Set : E:\sequence listing.txt

Output Set: N:\CRF4\04202007\J580428.raw

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3 <110> APPLICANT: Ben Gurion Negev Technologies and Applications Ltd.
4     Ben Gurion Negev Technologies and Applications Ltd.
5     Yisum
6     MANDELBOIM, Ofer
7     PORGADOR, Angel
9 <120> TITLE OF INVENTION: PEPTIDES DERIVED FROM NATURAL CYTOTOXICITY RECEPTORS AND
METHODS
10     OF USE THEREOF
12 <130> FILE REFERENCE: NAP/003 US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/580,428
C--> 15 <141> CURRENT FILING DATE: 2006-05-24
17 <150> PRIOR APPLICATION NUMBER: US 60/524,648
18 <151> PRIOR FILING DATE: 2003-11-25
20 <150> PRIOR APPLICATION NUMBER: PCT/IL2004/001081
21 <151> PRIOR FILING DATE: 2004-11-24
23 <160> NUMBER OF SEQ ID NOS: 27
25 <170> SOFTWARE: PatentIn version 3.3
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 20
29 <212> TYPE: PRT
30 <213> ORGANISM: homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: PEPTIDE
35 <222> LOCATION: (1)..(20)
36 <223> OTHER INFORMATION: aa 153-172 of NKp46 (SEQ ID NO:5 herein)
38 <400> SEQUENCE: 1
40 Phe Leu Leu Leu Lys Glu Gly Arg Ser Ser His Val Gln Arg Gly Tyr
41 1         5         10         15
44 Gly Lys Val Gln
45         20
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 28
50 <212> TYPE: PRT
51 <213> ORGANISM: homo sapiens
54 <220> FEATURE:
55 <221> NAME/KEY: PEPTIDE
56 <222> LOCATION: (1)..(28)
57 <223> OTHER INFORMATION: derived from NKp30 amino acids 56-83
59 <400> SEQUENCE: 2
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62 1         5         10         15
65 Phe Arg Gly Arg Leu Ala Pro Leu Ala Ser Ser Arg
66         20         25
69 <210> SEQ ID NO: 3

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70 <211> LENGTH: 20
71 <212> TYPE: PRT
72 <213> ORGANISM: homo sapiens
75 <220> FEATURE:
76 <221> NAME/KEY: PEPTIDE
77 <222> LOCATION: (1)..(20)
78 <223> OTHER INFORMATION: corresponds to amino acids 56-75 of NKp30
80 <400> SEQUENCE: 3
82 Arg Asp Glu Val Val Pro Gly Lys Glu Val Arg Asn Gly Thr Pro Glu
83 1 5 10 15
86 Phe Arg Gly Arg
87 20
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 24
92 <212> TYPE: PRT
93 <213> ORGANISM: homo sapiens
96 <220> FEATURE:
97 <221> NAME/KEY: PEPTIDE
98 <222> LOCATION: (1)..(20)
99 <223> OTHER INFORMATION: amino acids 61-80 of NKp44
101 <400> SEQUENCE: 4
103 Lys Lys Gly Trp Cys Lys Glu Ala Ser Ala Leu Val Cys Ile Arg Leu
104 1 5 10 15
107 Val Thr Ser Ser Lys Pro Arg Thr
108 20
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 304
113 <212> TYPE: PRT
114 <213> ORGANISM: homo sapiens
116 <300> PUBLICATION INFORMATION:
117 <308> DATABASE ACCESSION NO: NCBI/CAA04714
118 <309> DATABASE ENTRY DATE: 1998-09-22
119 <313> RELEVANT RESIDUES: (1)..(304)
121 <400> SEQUENCE: 5
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124 1 5 10 15
127 Gln Arg Ile Ser Ala Gln Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp
128 20 25 30
131 Ala Glu Pro His Phe Met Val Pro Lys Glu Lys Gln Val Thr Ile Cys
132 35 40 45
135 Cys Gln Gly Asn Tyr Gly Ala Val Glu Tyr Gln Leu His Phe Glu Gly
136 50 55 60
139 Ser Leu Phe Ala Val Asp Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys
140 65 70 75 80
143 Val Lys Phe Tyr Ile Pro Asp Met Asn Ser Arg Met Ala Gly Gln Tyr
144 85 90 95
147 Ser Cys Ile Tyr Arg Val Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu
148 100 105 110
151 Leu Asp Leu Val Val Thr Glu Met Tyr Asp Thr Pro Thr Leu Ser Val

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152          115          120          125
155 His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr Cys
156          130          135          140
159 Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly Arg
160 145          150          155          160
163 Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe Pro
164          165          170          175
167 Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe Gly
168          180          185          190
171 Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys Leu
172          195          200          205
175 Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp Pro
176          210          215          220
179 Thr Phe Pro Ala Asp Thr Trp Gly Thr Tyr Leu Leu Thr Thr Glu Thr
180 225          230          235          240
183 Gly Leu Gln Lys Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu
184          245          250          255
187 Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe
188          260          265          270
191 Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser
192          275          280          285
195 Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr Leu
196          290          295          300
199 <210> SEQ ID NO: 6
200 <211> LENGTH: 287
201 <212> TYPE: PRT
202 <213> ORGANISM: homo sapiens
204 <300> PUBLICATION INFORMATION:
205 <308> DATABASE ACCESSION NO: NCBI/CAA06872
206 <309> DATABASE ENTRY DATE: 1998-09-22
207 <313> RELEVANT RESIDUES: (1)..(287)
209 <400> SEQUENCE: 6
211 Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser
212 1          5          10          15
215 Gln Arg Ile Ser Ala Gln Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp
216          20          25          30
219 Ala Glu Pro His Phe Met Val Pro Lys Glu Lys Gln Val Thr Ile Cys
220          35          40          45
223 Cys Gln Gly Asn Tyr Gly Ala Val Glu Tyr Gln Leu His Phe Glu Gly
224          50          55          60
227 Ser Leu Phe Ala Val Asp Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys
228 65          70          75          80
231 Val Lys Phe Tyr Ile Pro Asp Met Asn Ser Arg Met Ala Gly Gln Tyr
232          85          90          95
235 Ser Cys Ile Tyr Arg Val Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu
236          100          105          110
239 Leu Asp Leu Val Val Thr Glu Met Tyr Asp Thr Pro Thr Leu Ser Val
240          115          120          125
243 His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr Cys

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244      130      135      140
247 Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly Arg
248 145      150      155      160
251 Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe Pro
252      165      170      175
255 Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe Gly
256      180      185      190
259 Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys Leu
260      195      200      205
263 Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp Pro
264      210      215      220
267 Thr Phe Pro Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu Leu
268 225      230      235      240
271 Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe Leu
272      245      250      255
275 Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser Arg
276      260      265      270
279 Ala Ser Thr Trp Glu Gly Arg Arg Leu Asn Thr Gln Thr Leu
280      275      280      285
283 <210> SEQ ID NO: 7
284 <211> LENGTH: 209
285 <212> TYPE: PRT
286 <213> ORGANISM: homo sapiens
288 <300> PUBLICATION INFORMATION:
289 <308> DATABASE ACCESSION NO: NCBI/CAA06873
290 <309> DATABASE ENTRY DATE: 1998-09-22
291 <313> RELEVANT RESIDUES: (1)..(209)
293 <400> SEQUENCE: 7
295 Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser
296 1      5      10      15
299 Gln Arg Ile Ser Ala Gln Gln Gln Met Tyr Asp Thr Pro Thr Leu Ser
300      20      25      30
303 Val His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr
304      35      40      45
307 Cys Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Lys Glu Gly
308      50      55      60
311 Arg Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe
312 65      70      75      80
315 Pro Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe
316      85      90      95
319 Gly Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys
320      100     105     110
323 Leu Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp
324      115     120     125
327 Pro Thr Phe Pro Ala Asp Thr Trp Gly Thr Tyr Leu Leu Thr Thr Glu
328      130     135     140
331 Thr Gly Leu Gln Lys Asp His Ala Leu Trp Asp His Thr Ala Gln Asn
332 145     150     155     160
335 Leu Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp

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```

336          165          170          175
339 Phe Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala
340          180          185          190
343 Ser Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr
344          195          200          205
347 Leu

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351 <210> SEQ ID NO: 8

352 <211> LENGTH: 192

353 <212> TYPE: PRT

354 <213> ORGANISM: homo sapiens

356 <300> PUBLICATION INFORMATION:

357 <308> DATABASE ACCESSION NO: NCBI/CAA06874

358 <309> DATABASE ENTRY DATE: 1998-09-22

359 <313> RELEVANT RESIDUES: (1)..(192)

361 <400> SEQUENCE: 8

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363 Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser
364 1          5          10          15
367 Gln Arg Ile Ser Ala Gln Gln Gln Met Tyr Asp Thr Pro Thr Leu Ser
368          20          25          30
371 Val His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr
372          35          40          45
375 Cys Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly
376          50          55          60
379 Arg Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe
380 65          70          75          80
383 Pro Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe
384          85          90          95
387 Gly Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys
388          100          105          110
391 Leu Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp
392          115          120          125
395 Pro Thr Phe Pro Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu
396          130          135          140
399 Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe
400 145          150          155          160
403 Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser
404          165          170          175
407 Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr Leu
408          180          185          190

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411 <210> SEQ ID NO: 9

412 <211> LENGTH: 488

413 <212> TYPE: PRT

414 <213> ORGANISM: artificial

416 <220> FEATURE:

417 <223> OTHER INFORMATION: conjugate of leader peptide, D1 and D2 domains of NKp46 with

Fc

418 domain

420 <400> SEQUENCE: 9

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422 Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser
423 1          5          10          15

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 04/20/2007

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Input Set : E:\sequence listing.txt

Output Set: N:\CRF4\04202007\J580428.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11,13,15,16,17,19,20,21,23,25,26,27

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/580,428

DATE: 04/20/2007

TIME: 16:05:48

Input Set : E:\sequence listing.txt

Output Set: N:\CRF4\04202007\J580428.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date